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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/757,450	01/15/2004	Zdenka L. Jonak	PF459C2	4086	
22195	7590 08/30/2006		EXAMINER		
HUMAN GENOME SCIENCES INC.			JIANG, DONG		
	JAL PROPERTY DEPT. Y GROVE ROAD	ART UNIT	PAPER NUMBER		
	, MD 20850		1646		
			DATE MAILED: 08/30/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applio	cation No.	Applicant(s)	Applicant(s)			
		10/75	7,450	JONAK ET AL.				
Office Action Summary			iner	Art Unit				
		Dong .	Jiang	1646				
Period fo	The MAILING DATE of this communion Reply	ication appears on	the cover sheet	with the correspondence a	ddress			
WHI(- Exte after - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm of period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply ar will, by statute, cause the	THIS COMMUN o event, however, may and will expire SIX (6) M examplication to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) file	ed on						
2a)□		2b)⊠ This action i	is non-final.					
3)[· · · · · · · · · · · · · · · · · · ·							
	closed in accordance with the practic	ce under <i>Ex part</i> e	Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposit	ion of Claims							
4)🖂	Claim(s) 1-18 is/are pending in the a	pplication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.							
6)[• • • • • • • • • • • • • • • • • • • •							
7)	Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-18</u> are subject to restriction	on and/or election	requirement.					
Applicati	ion Papers							
9)[The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are:	a) accepted or	r b)□ objected t	o by the Examiner.				
	Applicant may not request that any object	ction to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
_	Replacement drawing sheet(s) including							
11)	The oath or declaration is objected to	by the Examiner.	Note the attach	ed Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim t ☐ All b)☐ Some * c)☐ None of:	for foreign priority	under 35 U.S.C	. § 119(a)-(d) or (f).				
	1 Certified copies of the priority	documents have b	een received.					
	2. Certified copies of the priority	documents have b	een received in	Application No				
	3. Copies of the certified copies of	of the priority docu	ıments have bee	en received in this Nationa	l Stage			
	application from the Internation	·	, ,,					
* \$	See the attached detailed Office action	n for a list of the co	ertified copies no	ot received.				
Attachmen	t(s)							
	e of References Cited (PTO-892)			Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F			o(s)/Mail Date f Informal Patent Application (PT	O-152)			
Pape	r No(s)/Mail Date		6) Other:					

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DETAILED ACTION

Currently, claims 1-18 are pending.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, drawn to an isolated polynucleotide, a variant thereof, an expression system comprising said nucleic acid, a host thereof, and a method of recombinantly producing the encoded polypeptide, classified in class 435, subclass 69.1.
- II. Claims 10 and 11, drawn to a polypeptide, classified in class 530, subclass 350.
- III. Claim 12, drawn to an antibody, classified in class 530, subclass 387.9.
- IV. Claim 13 in part, drawn to a method of treatment for enhancing the activity of the polypeptide with an agonist to the polypeptide, classified in class 514, subclass 2.
- V. Claim 13 in part, drawn to a method of treatment for enhancing the expression of the polypeptide with the encoding polynucleotide, classified in class 514, subclass 44.
- VI. Claim 14 in part, drawn to a method of treatment for inhibiting the activity of the polypeptide with an antagonist to the polypeptide, classified in class 514, subclass 2.
- VII. Claim 14 in part, drawn to a method of treatment for inhibiting the expression of the polypeptide with a nucleic acid, classified in class 514, subclass 44.
- VIII. Claim 15 in part, drawn to a process for diagnosis by determining the presence or absence of a mutation in the nucleotide sequence encoding the polypeptide, classification depending upon the method steps.
- IX. Claim 15 in part, drawn to a process for diagnosis by analyzing for the presence or amount of the polypeptide, classification depending upon the method steps.
- X. Claim 16, drawn to a method for identifying compound, classified in class 435, subclass 7.1.

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XI. Claim 17, drawn to an agonist of the polypeptide, classification depending upon the chemical entity of the agonist.

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XII. Claim 18, drawn to an antagonist of the polypeptide, classification depending upon the chemical entity of the antagonist.

The inventions are distinct, each from the other because:

The polynucleotide of Invention I is related to the polypeptide of Invention II by virtue of encoding same. The polynucleotide has utility for the recombinant production of the polypeptide in a host cell. Although the polynucleotide and the polypeptide are related since the polynucleotide encodes the specifically claimed polypeptide, they are distinct inventions because they are physically and functionally distinct chemical entities, and the polypeptide product can be made by another and materially different process, such as by synthetic peptide synthesis or purification from the natural source. Further, the nucleic acid may be used for processes other than the production of the protein, such as nucleic acid hybridization assay.

The method of Invention I is related to the polypeptide of Invention II as process of making and product made. The Inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP 806.05(f)). In the instant case the product as claimed may be isolated from their natural source or made by chemical peptide synthesis.

The polynucleotide of Invention I is distinct from and unrelated to the antibody of Invention III, the agonist of invention XI, and the antagonist of invention XII because they are physically and functionally distinct chemical entities which share neither structure nor function. Also, neither is required for the manufacture of the other. The method of Invention I is distinct from and unrelated to the products of Inventions III, XI and XII because the products may be neither made by nor used in the method.

Invention I is distinct from and unrelated to Inventions IV and VI-X, wherein the polypeptide of Invention I is neither made by nor used in the methods of Inventions IV and VI-X, and wherein each does not require the other.

Inventions I and V are related as product and process of use (gene therapy). The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used for processes other than the gene therapy, such as nucleic acid hybridization assay.

The polypeptide of Invention II is related to the antibody of Invention III by virtue of being the cognate antigen, necessary for the production of the antibodies. Although the protein and antibody are related due to the necessary stearic complementarity of the two, they are distinct inventions because they are physically and functionally distinct chemical entities, and because the protein can be used another and materially different process from the use for production of the antibody, such as in a pharmaceutical composition in its own right, or in assays for the identification of agonists or antagonists of the polypeptide.

Invention II is distinct from and unrelated to Inventions IV-X, wherein the polypeptide of Invention II is neither made by nor used in the methods of Inventions IV-X, and wherein each does not require the other.

The polypeptide of Invention II is distinct from the agonist of invention XI, and the antagonist of invention XII because they are physically and/or functionally distinct chemical entities. Also, neither is required for the manufacture of the other.

Invention III is distinct from and unrelated to Inventions IV-VIII and X, wherein the antibody of Invention III is neither made by nor used in the methods of Inventions IV-VIII and X, and wherein each does not require the other.

Inventions III and IX can be related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used for processes other than the detection of the polypeptide, such as purification of the polypeptide of invention II.

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The antibody of Invention III is distinct from the agonist of invention XI, and the antagonist of invention XII because they are physically and/or functionally distinct chemical entities. Also, neither is required for the manufacture of the other.

Inventions IV-X are drawn to independent methods, wherein each of the methods has different process steps, different active agents, different starting and ending points, and is for a different purpose, such that they require separate searches.

Inventions IV and XI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the method of treatment using an agonist of the polypeptide can be practiced with the polypeptide itself.

Inventions IV, V and VII-X are distinct from and unrelated to Invention XII, wherein the antagonist of Invention XII is neither made by nor used in the method of Invention IV, V and VII-X and wherein each does not require the other.

Inventions V-X are distinct from and unrelated to Invention XI, wherein the agonist of Invention XI is neither made by nor used in the methods of Inventions V-X, and wherein each does not require the other.

Inventions VI and XII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the method of treatment using an antagonist of the polypeptide can be practiced with an antibody having antagonizing activity to the polypeptide.

The agonist of Invention XI is distinct from and unrelated to the antagonist of Invention XII because they are physically and functionally distinct chemical entities which share neither structure nor function. Also, neither is required for the manufacture of the other.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and/or recognized divergent subject matters, restriction for examination purposes as indicated is proper.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143), and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to

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rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Advisory Information

Any inquiry concerning this communication should be directed to Dong Jiang whose telephone number is 571-272-0872. The examiner can normally be reached on Monday - Friday

from 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol, can be reached on 571-272-0835. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AU1646 8/18/06